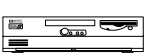
HP Vectra VLi 8SF PC

Models and Accessories

Product Number	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS[1]
Vectra VLi 8SF PC **Models with Intel Celeron Processor, PPGA[2] package, 66 MHz System Bus Speed, and 128 KB Level 2 Cache Memory**						
HP Vectra VLi 8SF PC 366/66 (CPL: 04/99 ▶)						
D7826A/T	4.3 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	32 MB SDRAM 100 MHz	no	3COM 3C905B-TX	W95
HP Vectra VLi 8SF PC 400/66 (CPL: 04/99 ▶)						
D7836A/T	4.3 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	32 MB SDRAM 100 MHz	no	3COM 3C905B-TX	W95
D7837A/T	8.4 GB IDE		64 MB SDRAM 100 MHz	24 × Max IDE slim CD-ROM		

Product Number	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS[1]
Vectra VLi 8SF PC **Models with Intel Pentium II Processor, 100 MHz System Bus Speed, and 512 KB Level 2 Cache Memory**						
HP Vectra VLi 8SF PC 400/100 (CPL: 04/99 ▶)						
D7846A/T	4.3 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	32 MB SDRAM 100 MHz	no	3COM 3C905B-TX	W95
D7847N/T	8.4 GB IDE		64 MB SDRAM 100 MHz	24 × Max IDE slim CD-ROM		NT 4.0 WS
D7848N				no		
D7860A	4.3 GB IDE		32 MB SDRAM 100 MHz			DOS
Vectra VLi 8SF PC **Models with Intel Pentium III Processor, 100 MHz System Bus Speed, and 512 KB Level 2 Cache Memory**						
HP Vectra VLi 8SF PC 450/100 (CPL: 06/99 ▶)						
D7857N/T	8.4 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	64 MB SDRAM 100 MHz	24 × Max IDE slim CD-ROM	3COM 3C905B-TX	NT 4.0 WS
D7858N						

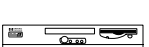


Product Number	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS[1]
Vectra VLi 8SF PC **Models[3] with Intel Celeron User Defined Processor, Main Memory, and Hard Disk**						
D7700E	User defined	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	User defined	User defined	User defined	None
Models[3] with Intel Pentium User Defined Processor, Main Memory, and Hard Disk						
D7850E	User defined	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	User defined	User defined	User defined	None

1. Operating system preloaded on these models, as indicated in the table.
2. PPGA=Plastic Pin Grid Array.
3. Channel Assembly Program (CAP) models: Processor model, hard disk size, and memory is user defined.

Note

All model have an integrated full-duplex PCI audio controller.



Supported Accessories

32-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module	D6501A/T
32-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module (pack of 20)	D6504A/T
64-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module	D6502A/T
64-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module (pack of 20)	D6505A/T
128-MB, 32-bit SDRAM, 100 MHz non-ECC main memory module	D6503A/T
256-MB, 32-bit SDRAM, 100 MHz ECC main memory module	D6743A/T

Documentation

User's Guide Manual Kit	D7820A

Input Devices

HP Standard Keyboard	C4735A
HP Scrolling Mouse	C4736A

Video Displays

All current HP Displays (see the *HP Vectra Accessory Service Handbook*)

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Mass Storage

4.3-GB IDE hard disk	D8371A
6.4-GB IDE hard disk	D8372A
8.4-GB IDE hard disk	D8373A
HP 100 MB Atapi II Iomega ZIP drive	D6650A
HP 100 MB Atapi II Iomega ZIP drive (pack of 10)	D6651A

Multimedia

Multimedia sound accessory kit (16-bit audio board, cables, and software) - pack of 10	D5183A
24X Max IDE slim CD-ROM drive	D8381A

Data Communications and LAN Adapter Boards

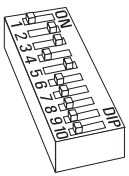
HP 56K V90 PCI Fax Modem	D7808A

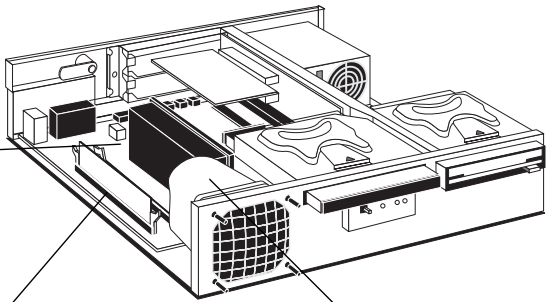
Security

HP Master Pass Key System Kit	D6655A
HP Master Pass Key	D6658A

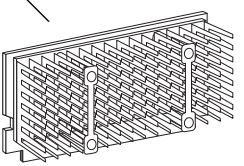
System Board, BIOS, and Memory

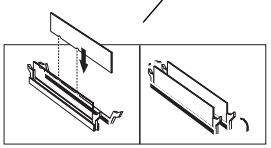
System Board Switches: See the table on the next page.





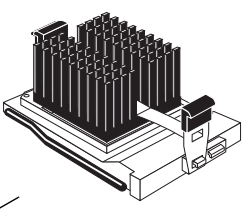
Processor: Pentium II or Pentium III, SECC2 package, with integrated heatsink and level-2 cache memory.

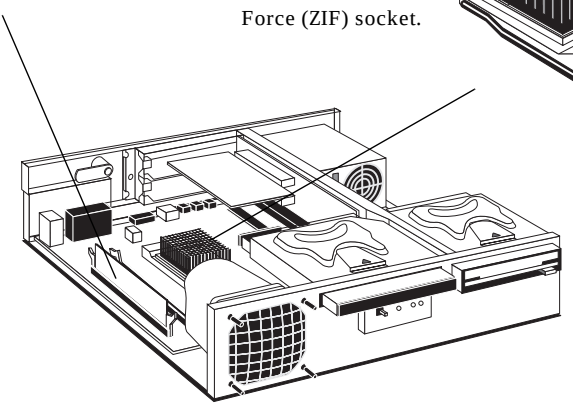




Main Memory:
Two DIMM sockets which support up to a maximum of 512 MB.
Install 32 MB, 64 MB, 128 MB or 256 MB 100 MHz SDRAM modules.

Processor: Celeron PPGA (Plastic Pin Grid Array) package with Zero Insertion Force (ZIF) socket.





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System Board Switches

Switch		Function	Default
1	**—**	RESERVED — Do Not Use	**Off**
2	On	Crash recovery mode: forces booting in the BIOS boot block area	**Off**
	Off	**Normal operation**	
3	**On**	**Normal operation (keyboard space-bar power-on enabled)**	**On**
	Off	Disables keyboard power- on	
4	On	Clears User and Administrator passwords	**Off**
	Off	**Normal operation**	
5	On	Clears CMOS (to reload the *Setup* program defaults)	**Off**
	Off	**Normal operation**	
6-9	**—**	Processor frequency, see the following table	**—**
10	**—**	RESERVED — Do Not Use	**Off**

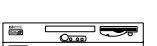
System Frequency[1]		Switch			
Bus 100 MHz	Bus 66 MHz	**6**	**7**	**8**	**9**
350 MHz[2]	233[2] MHz	Off	On	Off	On
400 MHz	266[2] MHz	On	Off	On	On
450 MHz	300[2] MHz	Off	Off	On	On
500 MHz	333[2] MHz	On	Off	Off	On
Reserved	366[2] MHz	Off	Off	Off	On
Reserved	400[2] MHz	On	On	On	Off
Reserved	433[2] MHz	Off	On	On	Off

1. System and processor frequency is automatically determined by the type of processor.
2. These options are not available in any model of the HP Vectra VLi 8SF at the time of printing. This information is provided for completeness only.

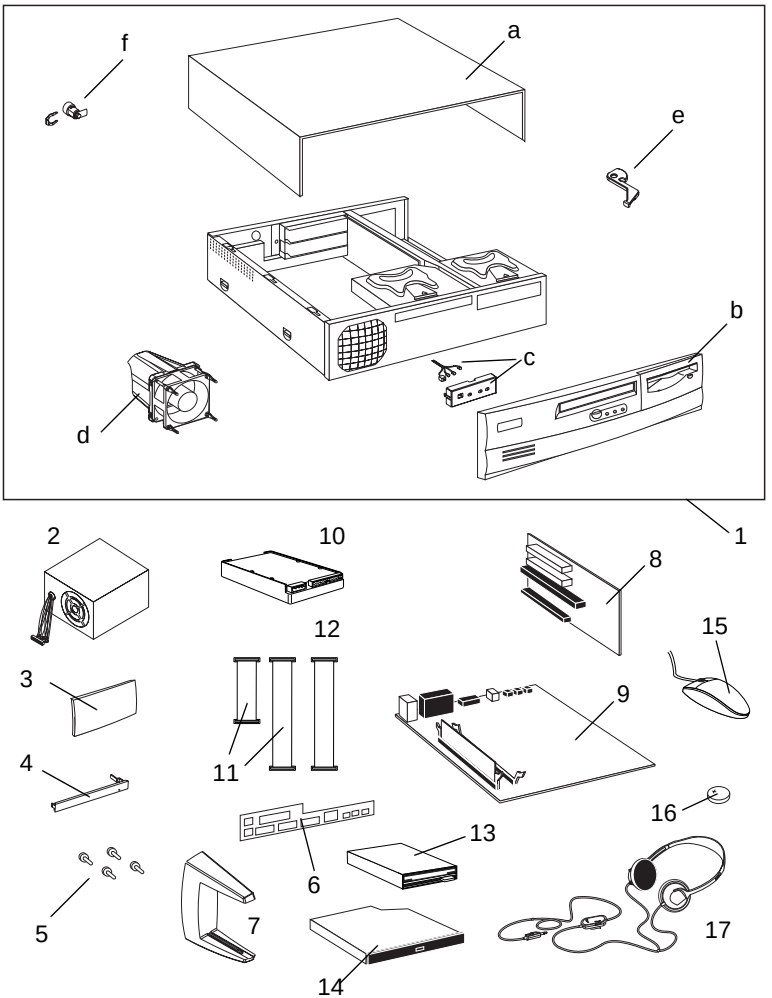
BIOS History

For the latest BIOS, the flasher utility program, and the BIOS history refer to the HP World Wide Web site.

http://www.hp.com/go/vectrasupport/



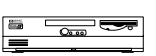
Part Numbers



Parts List for HP Vectra VLi 8SF PC

Item	Description	Repl. Part Number	Exchange Part Number
1	Chassis assembly:	5064-7404	—
	a Top cover assembly	5064-9103	
	b Bezel assembly	5064-9104	
	c Status panel assembly	5064-9151	
	d Airflow guide/fan assembly	5064-9108	
	e Mini NLX board extractor	5064-9739	
	f Master key lock	5064-9111	
2	Power supply	0950-3432	
3	FDD filler kit (RFI plate +filler)	5064-9131	
4	CD-ROM drive bay blank filler	5042-3098	
5	HDD screws/washers and RFI retainer kit	5064-9109	
6	Rear bezel	5064-7500	
7	Stand foot assembly	5064-9105	
8	Backplane board with 3COM 10/100BT network controller	5064-7406	—
9	System board	See PC's system board parts list	
10	IDE hard disk drive [1]		
	4.3 GB	—	D8371-69001
	8.4 GB	—	D8373-69001
11	IDE and FDD cable kit	5064-9137	—
12	CD-ROM cable	5183-9424	—
13	Flexible disk drive (bezel-less)	D2035-60391	—
14	24 × Max Slim IDE CD-ROM drive	—	D4383-69091
15	Enhanced mouse with scroll/zoom wheel	C4736-60101	—
	Standard keyboard	C4735-603xx[2]	—
	Standard keyboard (Japan)	C4732-60324	—
	Multimedia keyboard	C4734-605xx[2]	—
16	Battery type CR2032	1420-0356	—
17	Headphones	5182-3552	—

1. For optional disk drive information, see the *Accessory Service Handbook*.
2. Where "xx" is the code for your national keyboard (see the *Accessory Service Handbook*).



System Board Parts List for HP Vectra VLi 8SF PC

Description	Repl. Part Number	Exchange Part Number
System board:		
Vectra VLi 8SF system board with 370-pin socket (PGA370) for Intel Celeron processor	—	D7812-69001
Vectra VLi 8SF system board with SC242 slot connector for Intel Pentium II/III processor	—	D4066-69001
Processors:		
Intel Celeron 366/66 128KB L2 cache	5064-7495	—
Intel Celeron 400/66 128KB L2 cache	5064-9130	—
Heat-sink for Intel Celeron processor	1205-0932	
Thermal Interface material for Intel Celeron processor	6040-0939	
Intel Pentium II 400/100 512KB L2 cache	—	D7945-69001
Intel Pentium III 450/100 512KB L2 cache	—	D7946-69001
Main memory modules:		
1 × 32-MB, 100 MHz non-ECC SDRAM	D6501-63001	—
1 × 64-MB, 100 MHz non-ECC SDRAM	D6502-63001	—

Manuals and Documentation for HP Vectra VLi 8SF PC

User's Guide	D7820A
Troubleshooting and Upgrade Guide	no number[1]
Technical Reference Manual: hardware and BIOS	no number[1]

1. Electronic file available on HP's Web site.

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Notes:

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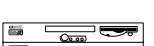


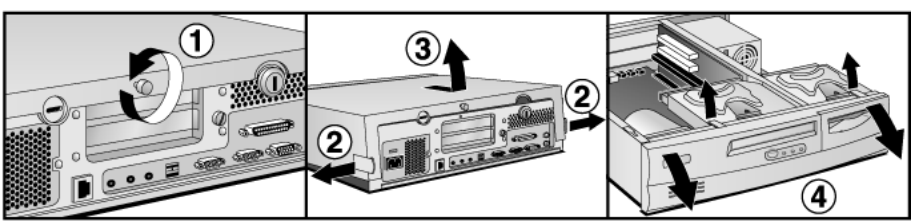
Removing and Replacing the Cover & Front Panel

Removing the Cover

Before removing the cover, switch off the monitor and PC, disconnect all power cords and any telecommunication cables. If necessary, unlock the cover at the rear of the PC.

1 Unfasten the thumb screw at the rear of the PC, open the rear latches and slide the cover backwards to remove it.

2 If replacing the fan, remove the front panel.

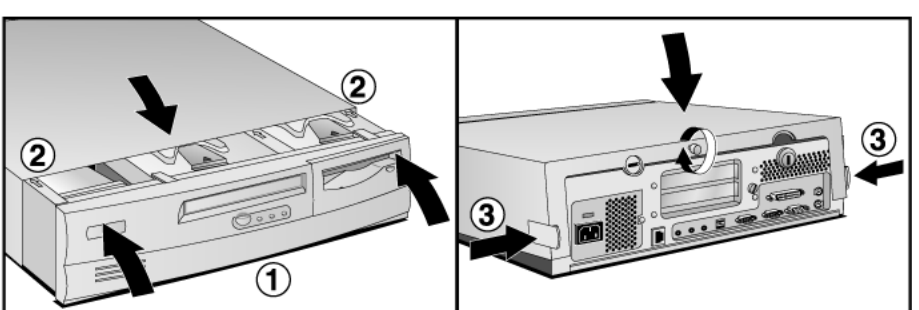


Replacing the Cover

Before replacing the cover, ensure that all internal cables are properly connected and safely routed.

1 If necessary, replace the front panel.

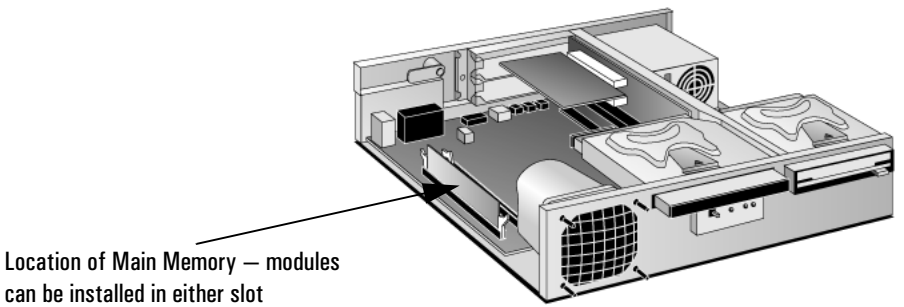
2 Align the cover with the arrows indicated and replace it.



3 Close the latches on the rear of the PC and fasten the thumb screw.

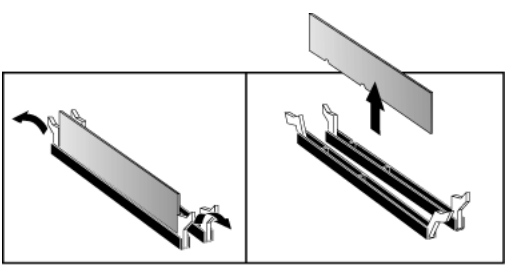
4 If required, lock the cover at the rear of the PC.

Replacing a Memory Module

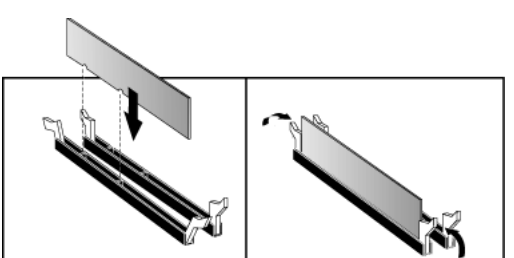


1 Remove the computer's cover (described in this chapter).

2 Open the two tabs and remove the old memory module.



3 Insert the new memory module (aligning it) and close the two tabs.



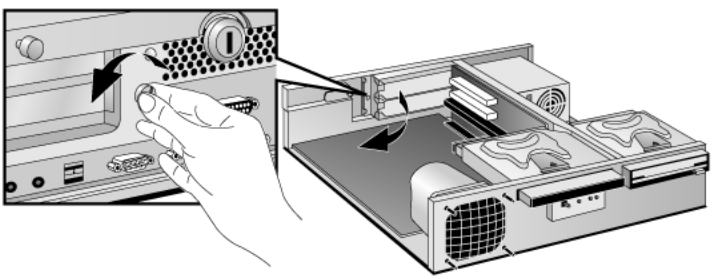
4 Replace the cover (described in this chapter).

Replacing an Accessory Board

NOTE Only use XT format ISA accessory boards (width less than 10.4 cm or 4.09 inches).

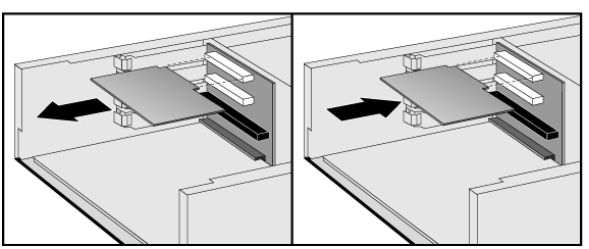
1 Remove the computer's cover (described in this chapter).

2 Unfasten the retaining bracket and rotate it open.

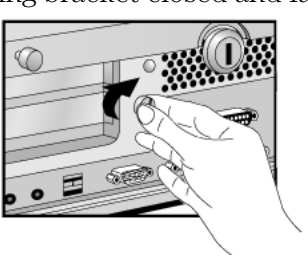


3 Hold the old board firmly and carefully pull it out.

4 Aligning the new board carefully, slide it into position and press it firmly into the slot.



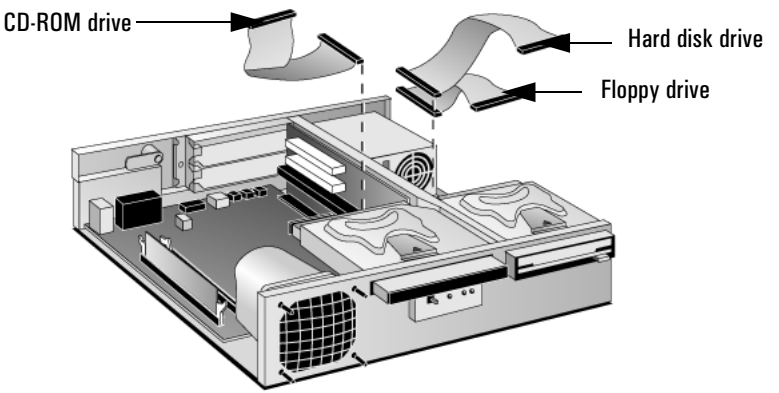
5 Rotate the retaining bracket closed and fasten it.

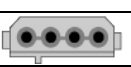
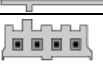


6 Replace the cover (described in this chapter).

Which Drive Connectors to Use

Internal drives, such as hard disk drives, DVD drives, or CD-ROM drives, must be connected to data and/or power cables. When replacing these drives, ensure you use the correct data and power connectors.



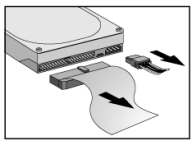
Power Connectors	Number in Desktop	Use for
	1	Hard disk drive
	1	Floppy disk drive

Replacing the Hard Disk Drive

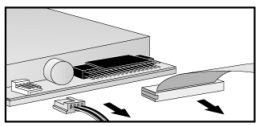
For information on recovering the contents of your hard disk drive, refer to the *Troubleshooting and Upgrade Guide*, available on HP's web site **www.hp.com/go/vectrasupport**.

1 Remove the computer's cover (described in this chapter).

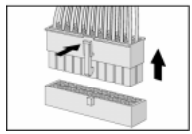
2 Remove all drive connectors.



Hard drive



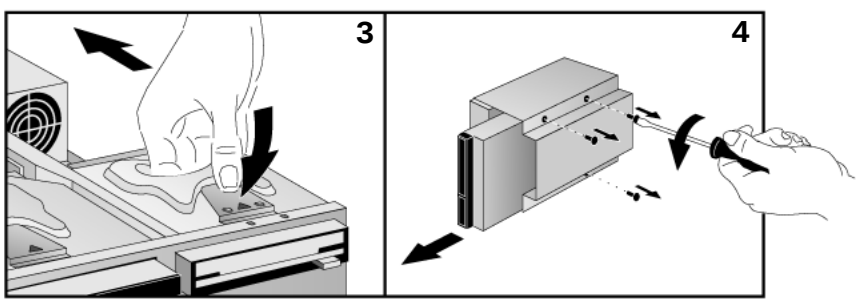
Floppy drive



Main power

3 Press the retaining clip on top of the drive tray and slide it backwards to remove it.

4 Unfasten the screws on the bottom of the drive tray and remove the hard disk drive.

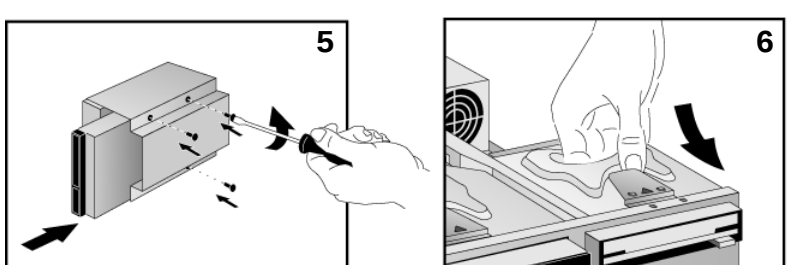


CAUTION

Take care when handling the hard disk drive during installation. A one-quarter inch drop can damage it.

5 Slide the new hard drive into the drive tray (with correct orientation) and fasten the screws.

6 Replace the drive tray.



7 Attach all data and power connectors.

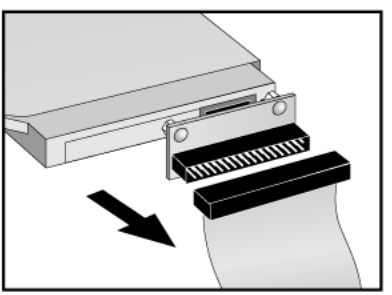
8 Replace the cover (described in this chapter).

Replacing the Slim CD-ROM Drive

WARNING To avoid electrical shock and harm to your eyes by laser, do not open the laser module. The laser module should be serviced by service personnel only. Do not attempt to make any adjustment to the laser unit. Refer to the label on the CD-ROM for power requirements and wavelength. This product is a class 1 laser product.

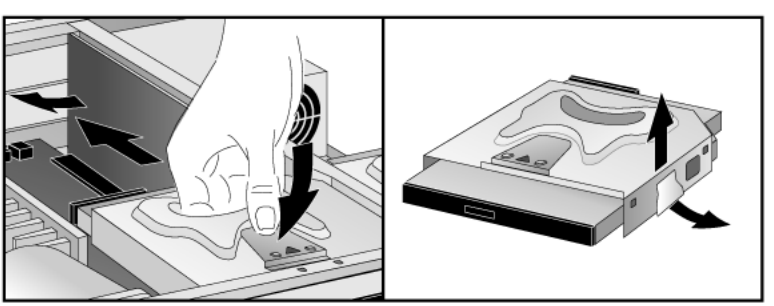
1 Remove the computer's cover (described in this chapter).

2 Remove the drive's connector.



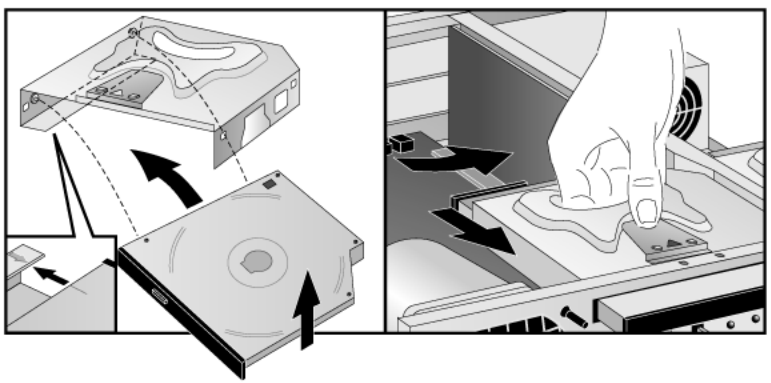
3 Press the retaining clip on top of the drive tray and slide it backwards to remove it.

4 Unlatch the CD-ROM drive to remove it from the drive tray.



5 Align the new CD-ROM drive with the arrows indicated on the drive tray and clip it into position.

6 Replace the drive tray.



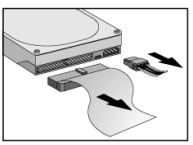
7 Attach drive's connector.

8 Replace the cover (described in this chapter).

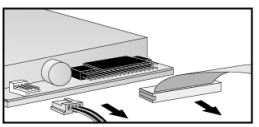
Replacing the Floppy Drive

1 Remove the computer's cover (described in this chapter).

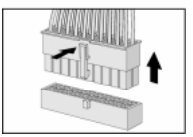
2 Remove all drive connectors.



Hard drive



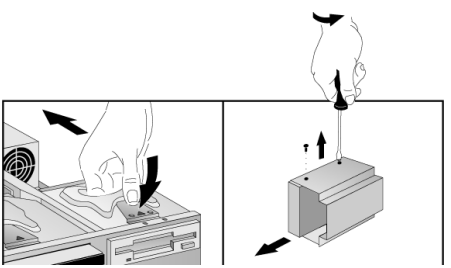
Floppy drive



Main power

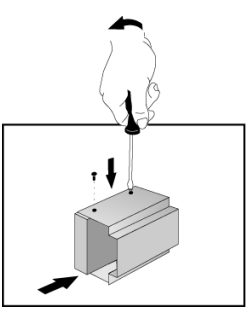
3 Press the retaining clip on top of the drive tray and slide it backwards to remove it.

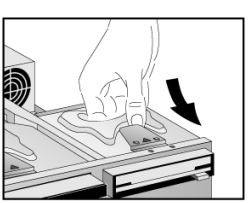
4 Unfasten the screws on the sides of the drive tray and remove the floppy drive.



5 Slide the new floppy drive into the drive tray (with correct orientation) and fasten the screws.

6 Replace the drive tray.





7 Attach all data and power connectors.

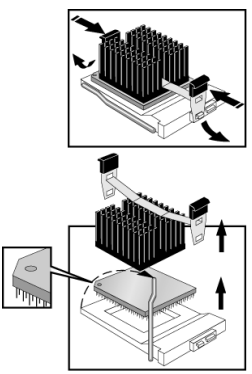
8 Replace the cover (described in this chapter).

Replacing the Processor

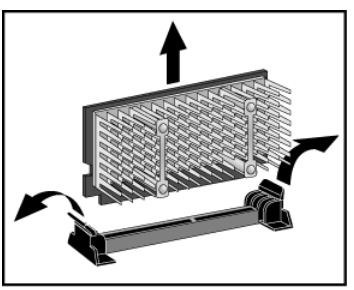
1 Remove the computer's cover (described in this chapter).

2 Remove the old processor.

Removing a Celeron processor

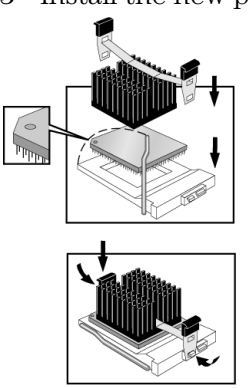


Removing a Pentium processor

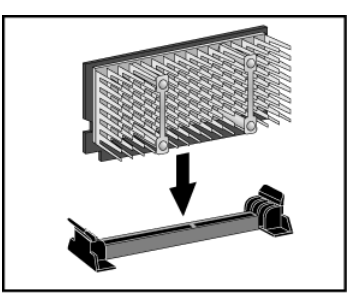


3 Install the new processor and clip it into place.

Replacing a Celeron processor



Replacing a Pentium processor



4 If the new processor is a different speed, ensure that the system board switches are correctly set for your processor speed. (The correct switch settings are indicated on the system board.)

For Celeron processors, the processor's speed settings are automatic.

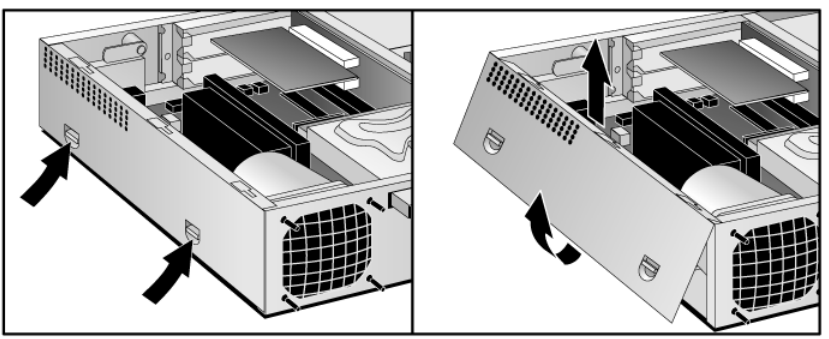
5 Ensure that the latest BIOS version is flashed.

6 Replace the cover (described in this chapter).

Replacing the System Board

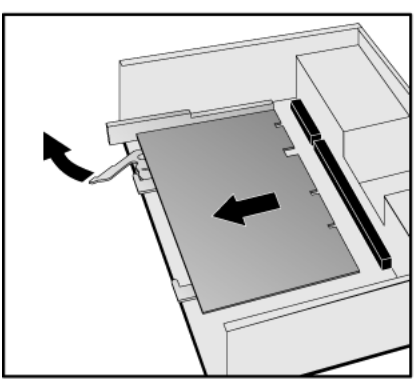
1 Remove the computer's cover (described in this chapter).

2 Remove the side panel.



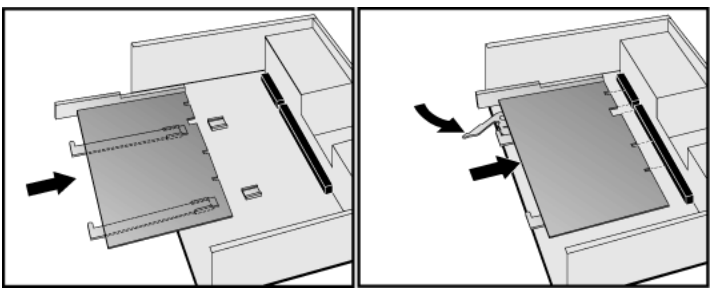
3 Remove the main memory and processor from the old system board (described in this chapter).

4 Remove the old system board.



5 Carefully slide in the new system board, aligning the rails correctly.

6 Push the system board into place using the lever. Ensure the connectors are well aligned and fully engaged.

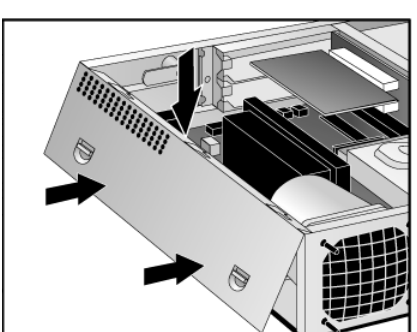


7 Replace the main memory and processor in the new system board (described in this chapter).

8 If the new processor is a different speed, ensure that the system board switches are correctly set for your processor speed. (The correct switch settings are indicated on the system board.)

For Celeron processors, the processor's speed settings are automatic.

9 Replace the side panel.



10 Replace the cover (described in this chapter).

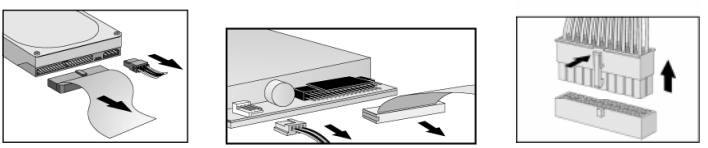
11 Ensure that the latest BIOS version is flashed.

Replacing the Power Supply

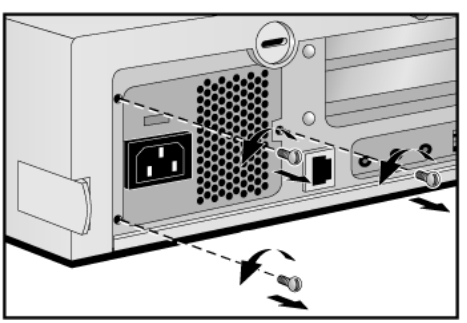
WARNING **To avoid electrical shock, do not open the power supply. There are no user-serviceable parts inside.**

1 Remove the computer's cover (described in this chapter).

2 Remove *all* internal power supply connectors.



3 Remove the screws securing the power supply.



4 Slide the power supply back and remove it.

5 Insert the new power supply.

6 Replace the three screws to secure the power supply.

7 Reconnect *all* internal power supply connectors.

8 Replace the cover (described in this chapter).

9 Select the correct voltage setting for your country.

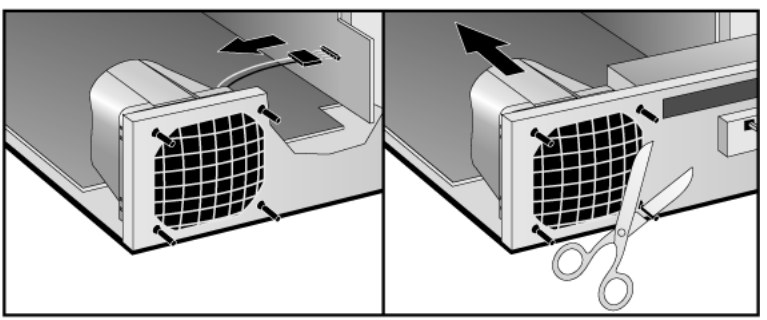
Replacing the Fan

1 Remove the computer's cover (described in this chapter).

2 Remove the side panel (refer to page 32).

3 Remove the fan's power connector.

4 Remove the airflow guide and fan.



5 Attach the four rubber pins to the new fan.

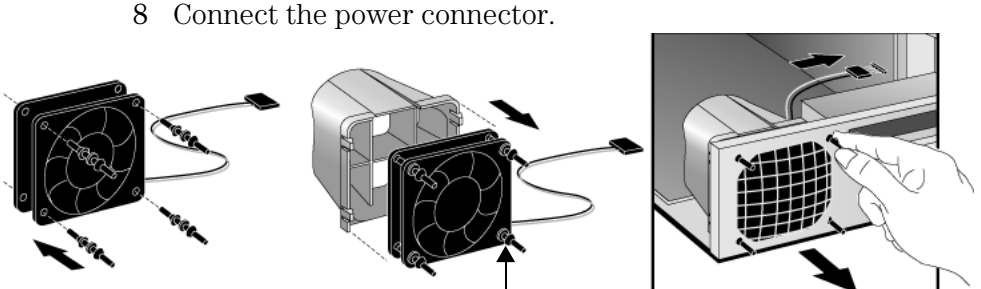
6 Attach the new air flow guide to the new fan.

7 Align the fan and insert it into the PC.

CAUTION

To ensure the fan operates correctly, install it with the power connector in the bottom right corner.

8 Connect the power connector.



9 Replace the side panel and cover (described in this chapter).

Replacing the Riser Card

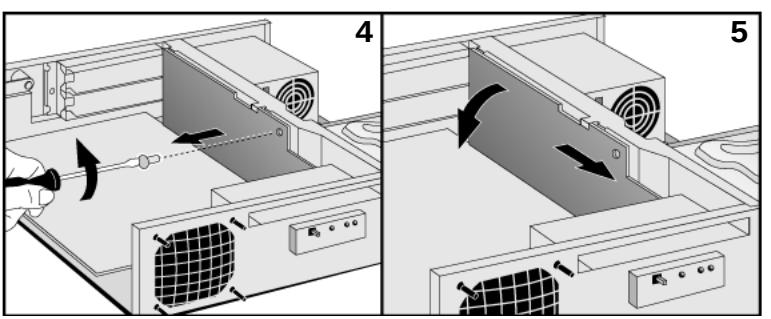
1 Remove the computer's cover (described in this chapter).

2 Remove the side panel and the system board (described in this chapter).

3 Remove any connectors attached to the riser card and any accessory boards installed.

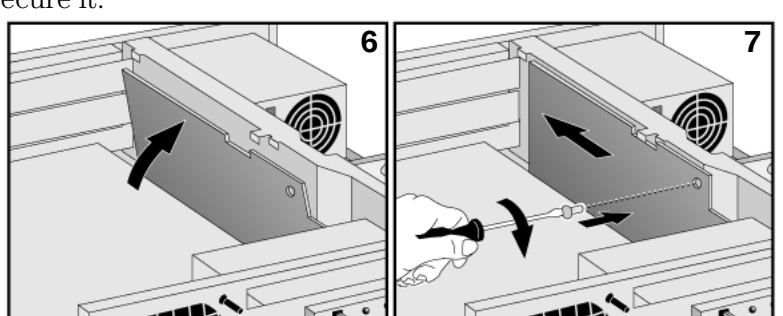
4 Remove the screw securing the riser card.

5 Slide the riser card forward and tilt to remove it.



6 Insert the new riser card.

7 Slide the riser card back into position and replace the screw to secure it.



8 Replace the system board, side panel and any accessory boards.

9 Reconnect all device connectors.

10 Replace the cover (described in this chapter).